Over the wire Bandit: WriteUp

Level 0 + Level 0->1

About Challenge: The goal of this level is for you to log into the game using SSH. The host to which you need to connect is "bandit.labs.overthewire.org", on port 2220. The username is "bandit0" and the password is "bandit0"

Application Used: used online website "https://shellngn.com" to solve the following SSH problem till the rest of the levels

Methodology: Is command is used to give us list of folders available while cat "filename" is used to give the content in it, here filename readme contained the password to next level which came out to be "NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL", the list of commands given in "commands you may need to solve this level" gave it away the use of Is, cat etc.

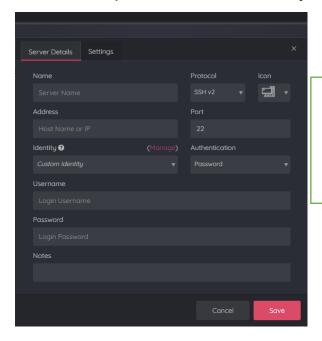
Solution: Using Is we found readme existed and using cat readme we got the password to next level i.e. "NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL"

>ls

readme

>cat readme

NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL



This was the login window from the website where I logged-in with a custom server name, Address = **bandit.labs.overthewire.org**, Port changed from 22 to 2200, Username = bandit0 and password = bandit0

Level 1->2

To proceed to next level we needed to login to bandit1 using password we obtained from level0->1, so we had to type "exit" in order to logout from bandit0

Like the previous level we use "Is" command to find the file "-" as per the challenge however the "helpful reading material" sections awares us we can't simply type "cat —" to access it and we had to go for "cat ./-" from where we obtain the password now successfully as "rRGizSaX8Mk1RTb1CNQoXTcYZWU6lgzi" for next level

Problem faced: Using "cat -" directly which was not as it was supposed to be

Level 2->3

To proceed to next level just like before we had to type "exit" to logout from bandit1 and login to bandit2 with the password we got

In this level using Is we saw that the file existed in form of

spaces in this filename

when read through reading material we saw that not all filename approves spaces and so was the case going through chatgpt it was known that for linux we can use quotation in such case and use it like a string so now using

>cat "spaces in this filename"

aBZ0W5EmUfAf7kHTQeOwd8bauFJ2lAiG

the following was our password to go through next level

Level 3->4

Like all previous level we need to exit to logout from bandit2 and login to bandit3 using password we got

Now the challenge here was to go through a hidden file

after going through list of commands we saw we can get it using the cd command

>ls

inhere

>cd inhere

>ls -a

.hidden

>cat .hidden

2EW7BBsr6aMMoJ2HjW067dm8EgX26xNe

which is our password to next level

Problem faced: 2-3 error before finally learning the cd command stuff

Level 4->5

Challenge: The password for the next level is stored in the only humanreadable file in the inhere directory

Like everytime we logout from previous bandit to current bandit4 using the password we got from level above

here using Is we get all the filename available and there were 10 -file00 to -file09 so we had to use cat -fileXY (XY= 00, 01, 02,....,09) till we get a human readable file as mentioned in the challenge

from there we obtained the password in -file07 with the password being IrIWWI6bB37kxfiCQZqUdOIYfr6eEeqR

Problem faced: typing cat -fileXY directly instead of cat ./-fileXY which we had previously known why to use ./ before a "-"ed file name

Level 5->6

Logout from bandit4 and login to bandit5 using the password above

Challenge: The password for the next level is stored in a file somewhere under the **inhere** directory and has all of the following properties:

- human-readable
- 1033 bytes in size
- not executable

Here we need to use "find" command and it's find type, size attributes so that we can check all the things mentioned like 1033 be its byte size

travel through inhere using cd then specify the find command as per the challenge we get "./maybehere07/.file2" which is the file human readable, 1033bytes and not executable

typing

>cat ./maybehere07/.file2

P4L4vucdmLnm8I7VI7jG1ApGSfjYKqJU

we get our password to next level

Problem Faced: while executing find command

Level 6->7

Logout from bandit5 and login to bandit6 by typing exit and using password obtained from previous level

Challenge: The password for the next level is stored **somewhere on the server** and has all of the following properties:

- owned by user bandit7
- owned by group bandit6
- 33 bytes in size

using the following code of find we saw a list in which everything was permission denied except the line with "bandit7.password" in it

Code used:

>find / -user bandit7 -group bandit6 -type f -size 33c

{using given filter from challenge to use "user bandit7, group bandit6 and size be 33 bytes"}

after seeing one of the files be named as

/var/lib/dpkg/info/bandit7.password use it with "cat" command to obtain the password which was

"z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S"

Level 7->8

Logout from bandit6 and login to bandit7 using "exit" command and from the password we obtained in the level previous

Challenge: The password for the next level is stored in the file **data.txt** next to the word **millionth**

Using "man grep" the manual to grep function was learnt by me in order to do the following level

Grep, when used within an SSH session, it allows you to search for specific patterns or text within files on a remote server.

so using

>cat data.txt | grep "millionth"

we got our password to next level being

"TESKZC0XvTetK0S9xNwm25STk5iWrBvP"

Problem faced: Had to see a 1-2min clip from youtube to know grep format

Level 8->9

Logout of Bandit7 and login to bandit8 using "exit" command and the password we obtain above

Challenge: The password for the next level is stored in the file **data.txt** and is the only line of text that occurs only once

Sort and unique command given in command you may need to solve section had to be gone through in order to get the file which appears only once which we get using unique method

Using

>cat data.txt | sort | uniq -u

the password to next level was obtained which was

"EN632PlfYiZbn3PhVK3XOGSlNInNE00t"

Level 9->10

Logout from bandit8 using "exit" command and login to bandit9 using the password above

Challenge: The password for the next level is stored in the file **data.txt** in one of the few human-readable strings, preceded by several '=' characters.

in this we had to go through "string" alongside grep to get the password so using the command

>cat data.txt | strings | grep "="

we got many lines as output out of which our password for next lvl was

"G7w8Lli6J3kTb8A7j9LgrywtEUlyyp6s"

Problem faced: there were many password options I went through the above cuz it resembled previous passwords a lot

Level 10->11

Logout of bandit9 using "exit" and login to bandit10 from the given password

Challenge: The password for the next level is stored in the file **data.txt**, which contains base64 encoded data

In this we find the file data.txt and when we use

>cat data.txt

we will obtain a code which is in base64 form so we had to decode it which is "VGhlIHBhc3N3b3JkIGlzIDZ6UGV6aUxkUjJSS05kTlIGTmI2blZDS3pwaGxYSEJNCg =="

using dcode website we can decode the following base 64 in which we get the following code

"The password is 6zPeziLdR2RKNdNYFNb6nVCKzph1XHBM"

and therefore our password for next level is:

"6zPeziLdR2RKNdNYFNb6nVCKzphlXHBM"

Level 11->12

Logout of bandit10 using "exit" and login to bandit11 using password above

Challenge: The password for the next level is stored in the file **data.txt**, where all lowercase (a-z) and uppercase (A-Z) letters have been rotated by 13 positions

using man tr we get to know the use of "tr", here while using

>cat data.txt

we will get the output which would be rotated by 13 position, in order to get the correct password we can use tr and set it as per 13 position to get the right password

>cat data.txt | tr "A-Za-Z" "N-ZA-Mn-za-m"

The password is JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv

is obtained as the output meaning the password for bandit12 will be JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv

CRYPTONITE TASKPHASE-1